Domain : x-values, input, independent variable

Range : y-values, output dependent variable

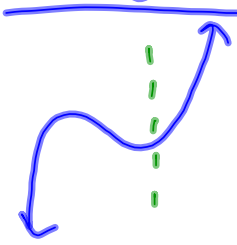
Function : Each x-value is paired with exactly on y-value.

Function: (1,2)(2,4)

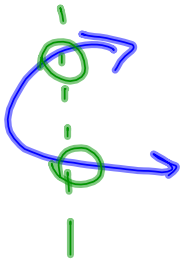
Not a function: (1,2)(1,3)

- Vertical Line Test: If A vertical line crosses the graph only once, it is a function.

Function



Not a function



1. $y = |x| - 2$

D: $(-\infty, \infty)$
R: $[-2, \infty)$

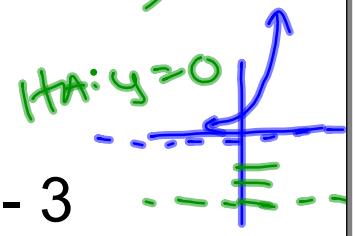
2. $y = 1 + 1/(x^2)$

D: $(-\infty, 0) \cup (0, \infty)$
R: $(1, \infty)$

3. $y = -2 + \sqrt{1-x}$

D: $(-\infty, 1]$ $1 - x \geq 0$, $1 \geq x$, $x \leq 1$
R: $[-2, \infty)$

4. $y = e^{2x} - 3$



D: $(-\infty, \infty)$
R: $(-3, \infty)$